

Claims

1. A method for reducing interference within a communication system, the method comprising the steps of:

- 5 polling a remote unit for status information at a first rate;
 determining a channel condition metric for an uplink channel; and
 polling the remote unit for status information at a second rate, wherein the second
 rate is based on the channel condition metric for the uplink channel.

- 10 2. The method of claim 1 wherein the step of determining the channel condition metric
 comprises determining the channel condition metric from the group consisting of BER,
 Frame Error Rate (FER), and Signal to Noise Ratio (S/N).

- 15 3. The method of claim 1 wherein the step of polling the remote unit for status
 information comprises the step of polling the remote unit for a radio link control
 acknowledgment mode (RLC-AM) control message.

- 20 4. The method of claim 1 further comprising the step of receiving status information
 from the remote unit at the second rate.

- 25 5. A method for reducing interference within a communication system, the method
 comprising the steps of:

- transmitting data to a remote unit via a downlink channel;
 polling the remote unit for status information regarding the transmitted data,
 wherein the step of polling takes place at a first polling rate;
 determining a channel condition metric for an uplink channel; and
 polling the remote unit for the status information at a second rate, wherein the
 second rate is based on the channel condition metric for the uplink channel.

- 30 6. The method of claim 5 wherein the step of determining the channel condition metric
 comprises determining a channel condition metric from the group consisting of BER,
 Frame Error Rate (FER), and Signal to Noise Ratio (S/N).

- 35 7. The method of claim 5 wherein the step of polling the remote unit for status
 information comprises the step of polling the remote unit for a radio link control
 acknowledgment mode (RLC-AM) control message.

8. The method of claim 5 further comprising the step of receiving status information from the remote unit at the second rate.

9. The method of claim 5 wherein the step of polling the remote unit at the second rate
5 comprises the step of polling the remote unit at a higher rate when the BER is high.

10. A method comprising:

sending status information to a radio access network (RAN) at a first rate;

determining a channel condition of a downlink communication channel; and

10 sending status information to the RAN at a second rate based on the channel condition.

11. The method of claim 10 wherein the step of sending status information to the RAN
15 comprises the step of sending a radio link control acknowledgment mode (RLC-AM) control message to the RAN.

12. The method of claim 10 wherein the step of determining the channel condition metric
20 comprises determining the channel condition metric from the group consisting of BER, Frame Error Rate (FER), and Signal to Noise Ratio (S/N).

13. An apparatus comprising:

a control unit having a channel condition metric as an input and outputting a
polling rate;

25 a timer having the polling rate as an input and outputting a command at the polling rate; and

transmission circuitry having the command as an input and outputting a polling
message to a remote unit at the polling rate.

14. The apparatus of claim 13 wherein the channel condition metric is a metric from the
30 group consisting of BER, Frame Error Rate (FER), and Signal to Noise Ratio (S/N).

15. The apparatus of claim 13 wherein the polling message is a message instructing the
remote unit to transmit a radio link control acknowledgment mode (RLC-AM) control
message.

35 16. The apparatus of claim 13 wherein the channel condition metric is a channel condition metric of an uplink channel.

17. An apparatus comprising:

a control unit having a channel condition metric as an input and outputting a transmit rate;

5 a timer having the transmit rate as an input and outputting a command at the transmit rate; and

transmission circuitry having the command as an input and outputting a status message to a radio access network (RAN) at the transmit rate.

10 18. The apparatus of claim 17 wherein the channel condition metric is a metric from the group consisting of BER, Frame Error Rate (FER), and Signal to Noise Ratio (S/N).

19. The apparatus of claim 17 wherein the status message is a radio link control acknowledgment mode (RLC-AM) control message.

15 20. The apparatus of claim 17 wherein the channel condition metric is a channel condition metric for a downlink channel.